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1 General

Welcome and congratulations

On your purchase of a new Giant hybrid power bicycle, the fun of pedaling is only moments away.

Ride Life, Ride Giant

Nothing makes us happier than seeing people out riding bikes. For over thirty years Giant has manufactured quality bikes for every type of terrain and rider imaginable. Giant bicycles have allowed millions of cyclists just like you the opportunity to live happier healthier lives because of the joy, exercise and sheer exhilaration that riding a bicycle brings. And it is this commitment to sharing the joy of the ride that inspires us to continually offer the world's most innovative bicycles.

1.1 Use of the manual

Read this manual carefully before you start riding on your new Giant hybrid power bicycle.
By doing so you will have a better understanding for the general operation of the various bike parts. You will learn many of the components you once recognized as part of a Twist bike have changed significantly. Safe riding instructions are equally important and should not be overlooked. Instructions about how to ride safely are as important as always and must not been overseen. So, take a moment to read this manual before you start riding.

This manual is not intended to be an extensive reference book about service, repair and maintenance. Consult for that your dealer.

1.2 Service and technical support

Approval and conformity

This hybrid power bicycle fulfills the requirements of the EC directive 2004/108/EC.

The Aspiro, Twist and Escape Hybrid bikes conform:
- City/Trekking bicycles: EN 14764
- Electric bicycles: EN 15194

The Roam XR Hybrid & Talon 29 Hybrid bikes conform:
- Mountain bicycles: EN 14766
- Electric bicycles: EN 15194

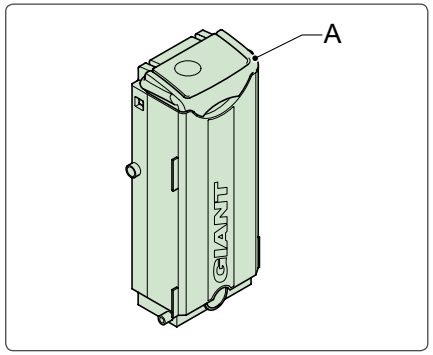
2 Safety

2.1 EnergyPak

- Keep the EnergyPak away from water and open fire;
- Do not use the EnergyPak for other purposes;
- Do not connect positive and negative terminals;
- Keep the EnergyPak away from children and pets;
- Watch the specified voltage.

The grip (A) also serves as a plug cover.

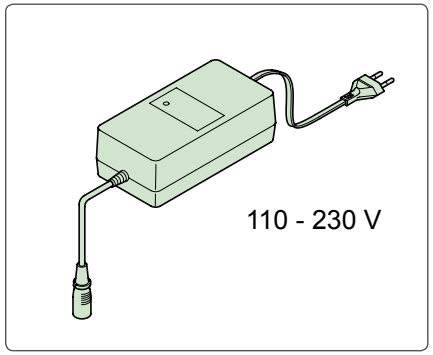
Also take notice of the information at the backside of the EnergyPak.



2.2 Charger

- Keep the charger away from water;
- Do not use the charger for other purposes;
- Do not subject the charger to shocks (e.g. by dropping);
- Do not cover the charger or place objects on it;
- Avoid contact during the charge. The charger heats up.

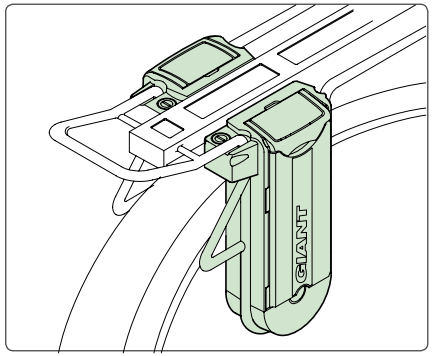
Also take notice of the information at the backside of the charger.



2.3 Luggage carrier

See to it that while transporting luggage, the EnergyPak holders cannot get damaged.

Maximum rear carrier load: 25 KG.

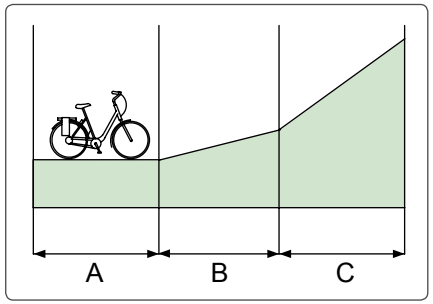


3 Range

3.1 Range conditions

The running distance on one charge varies depending on several circumstances, such as:

- Outdoor temperatures;
- Wind resistance;
- Tire pressure;
- Hilly and rough surface;
- Rider weight and luggage;
- Acceleration;
- Poor maintenance;
- The number of charges/discharges. The more charges/discharges, the less capacity it will have.



The table below gives an approximate range, based on different road patterns.

	Condition	Eco [km]	Normal [km]	Sport [km]
Models with EnergyPak Front Li-Ion battery. (10Ah)	Flat road (A)	50-65	40-55	30-40
	Sloping road (B)	40-55	35-50	20-30
	Steep road (C)	35-50	25-40	15-25
Models with EnergyPak Central Li-Ion battery. (9Ah)	Flat road (A)	60-75	50-70	40-50
	Sloping road (B)	45-60	40-55	30-40
	Steep road (C)	40-55	30-45	20-30
Front motor models with EnergyPak Rear Horizontal Li-Ion battery. (10Ah)	Flat road (A)	70-85	55-70	45-55
	Sloping road (B)	60-75	40-55	35-45
	Steep road (C)	50-65	30-45	25-35
Rear motor models with EnergyPak Rear Horizontal Li-Ion battery. (10Ah)	Flat road (A)	65-80	55-65	45-55
	Sloped road (B)	50-65	40-50	35-45
	Steep road (C)	45-60	35-45	25-35
Models with EnergyPak Rear Vertical Li-Ion battery. (8Ah)	Flat road (A)	65-80	50-65	40-50
	Sloping road (B)	45-60	35-50	30-40
	Steep road (C)	40-55	30-45	20-30
Models with EnergyPak Rear Vertical two Li-Ion batteries. (8Ah x 2)	Flat road (A)	110-140	85-120	70-85
	Sloping road (B)	95-110	70-95	50-70
	Steep road (C)	75-95	50-75	35-50

- Do not ride with under inflated tires and keep the chain clean and well lubricated.

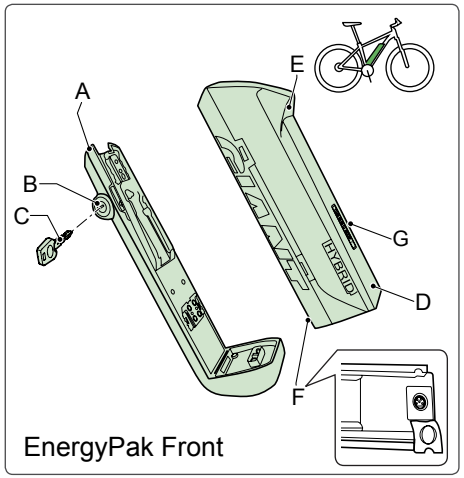
3.2 Other data

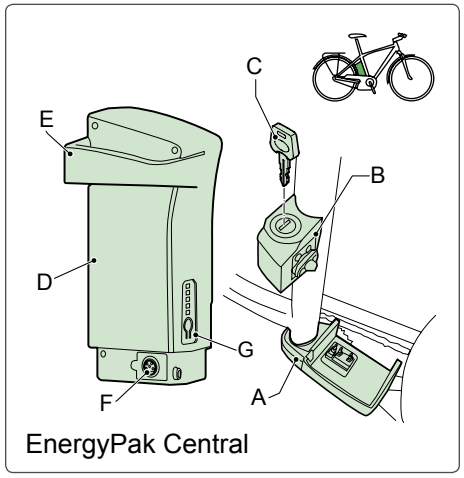
EnergyPak life span
If used and maintained properly: approximately 600 charge cycles.

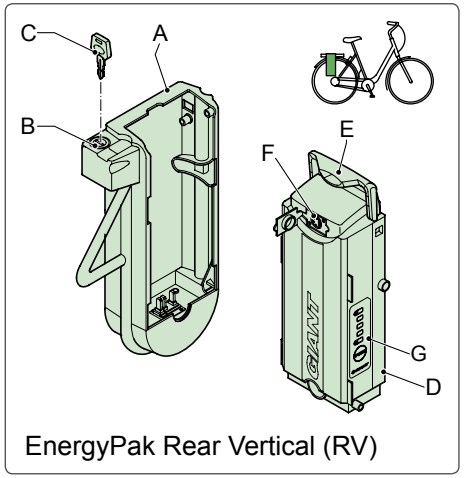
Extended storage
Charge the EnergyPak to full level, and from then on every three months.
Storage temperature: 0 °C (32 °F) to 40 °C (104 °F).

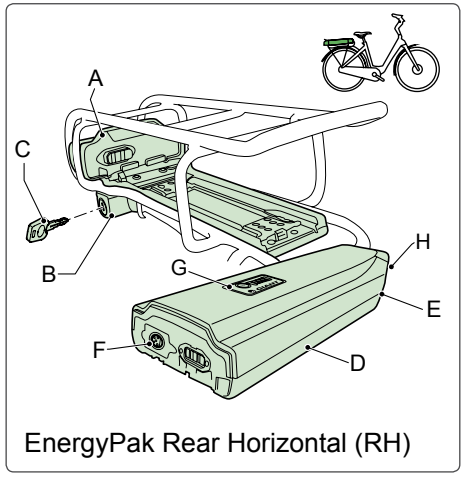
4 Overview

4.1 EnergyPak System





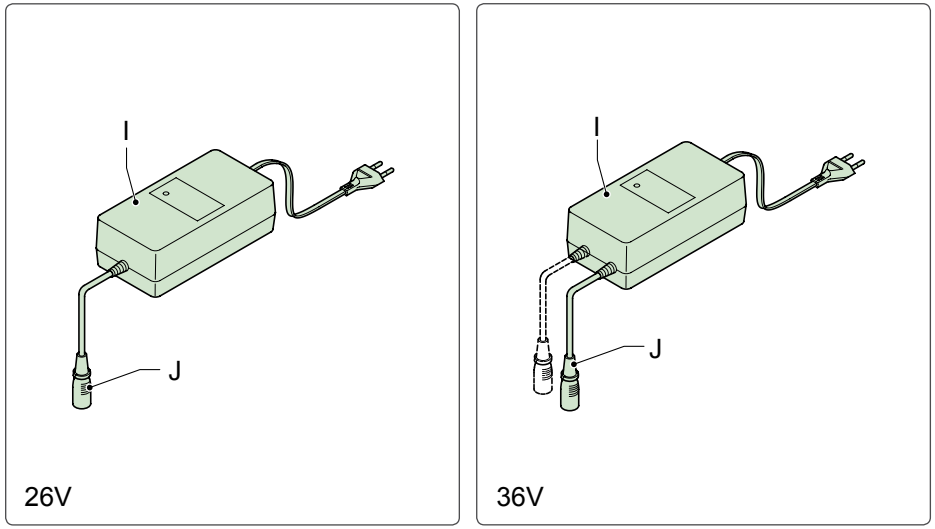




A EnergyPak holder
B EnergyPak lock
C Key
D EnergyPak
E Grip (EnergyPak RV: Grip cover charging socket)
F Charging socket
G Energy level check*
H Tail light (EnergyPak Rear Horizontal)

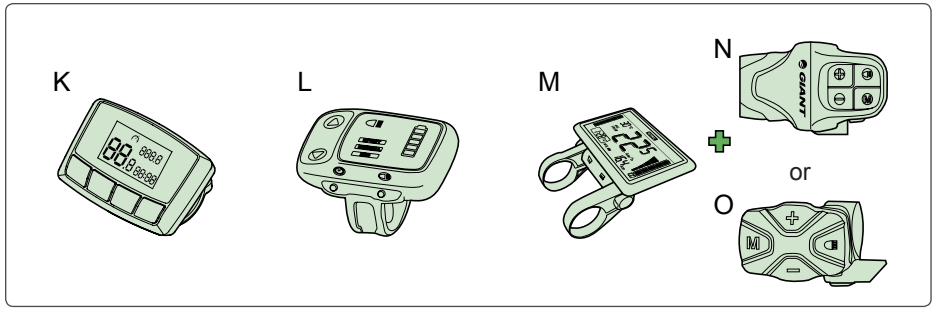
* Push 'Energy level check' button once and wait for 1~2 seconds. The LEDs will show the remaining battery energy level.

4.2 Charger



I Charger J Charger plug (2x for 36V double battery bikes)

4.3 RideControl



K RideControl
L LED RideControl
M Full LCD Display (LCD Display)
N RideControl City (Compact with LCD Display)
O RideControl Sport (Compact with LCD Display)

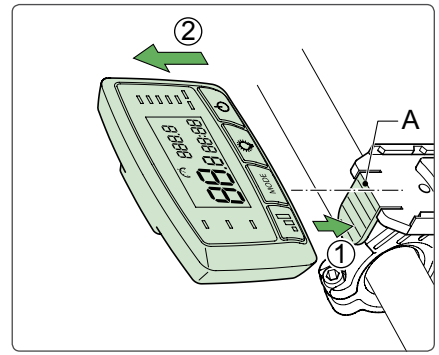
4.4 Keys

The bike comes standard with two lock keys. Keep the spare key in a safe place for emergencies. A qualified locksmith may duplicate the keys. Record the key number for future reference and replacement. If the keys are ever lost or stolen, contact an authorized Giant-dealer for replacement.

5 RideControl adjustments

5.1 Take away the RideControl

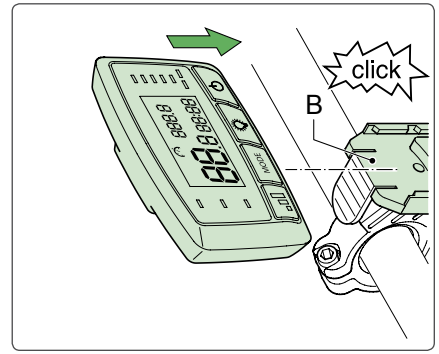
- Push the release button (A) to release the RideControl.



5.2 Place back the RideControl

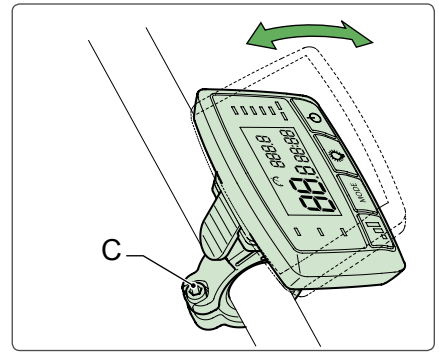
1. Place the RideControl into the holder (B).
2. Push the RideControl in the holder.

Make sure that contact surface of RideControl and bracket are dry before mounting the RideControl.



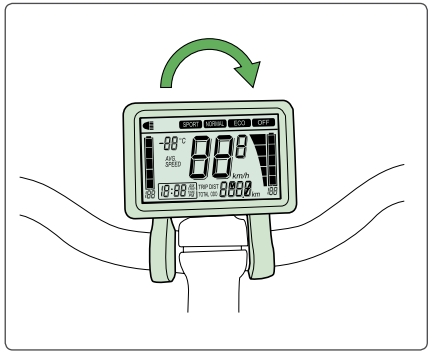
5.3 Adjustment

- Unscrew the bolt (C) a few turns.
- Adjust the panel.
- Tighten the bolt.



5.4 Take away the Full LCD Display

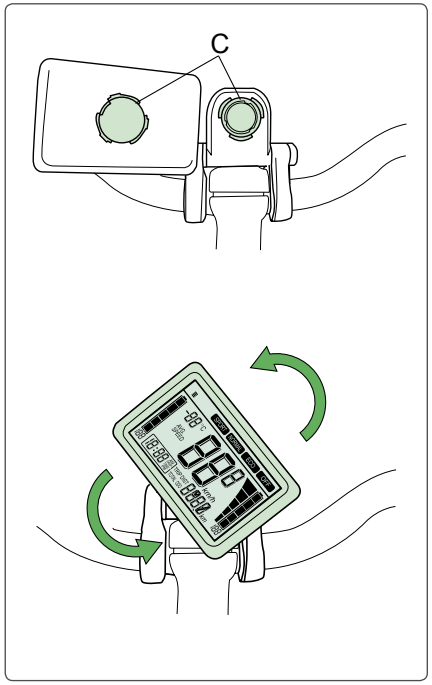
- Hold the LCD Display and turn it clockwise to release the LCD Display from the holder.



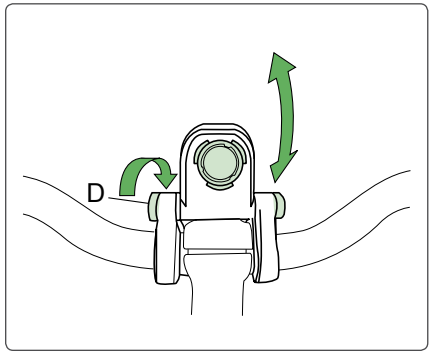
5.5 Place back the Full LCD Display

1. Place the LCD Display into the holder (C)
2. Turn the LCD Display counterclockwise

Make sure that contact surface of LCD Display and bracket are dry before mounting the LCD Display.

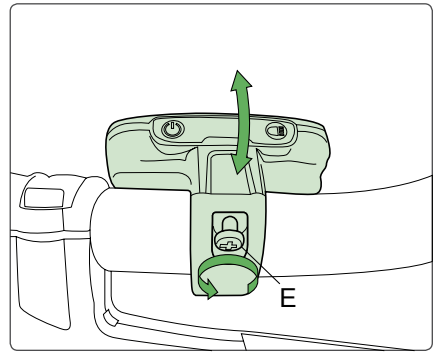


5.6 Adjustment



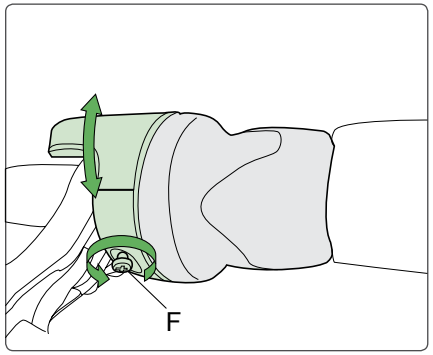
Full LCD Display

- Take away the LCD display (refer to section 5.4)
- Counterclockwise to unscrew the bolt (D) a few turns.
- Adjust the angle of the LCD mount.
- Tighten the bolt
- Place back the LCD Display (refer to section 5.5)



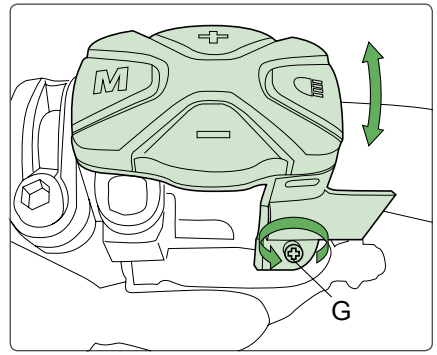
LED RideControl

- Unscrew the bolt (E) a few turns.
- Adjust the LED RideControl.
- Tighten the bolt.



RideControl City

- Unscrew the bolt (F) a few turns.
- Adjust the RideControl City.
- Tighten the bolt.

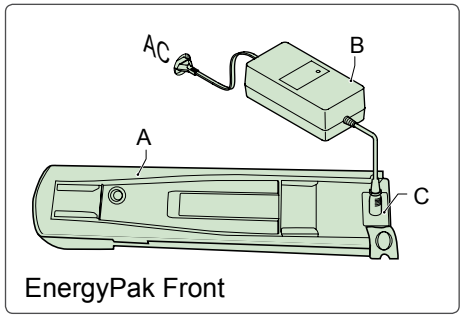


RideControl Sport

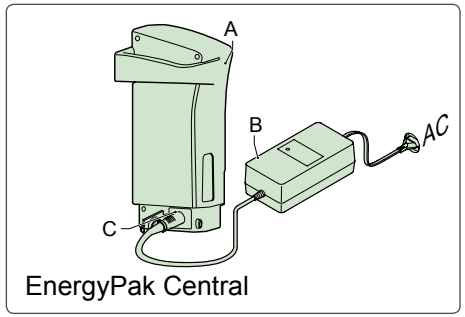
- Unscrew the bolt (G) a few turns.
- Adjust the RideControl Sport.
- Tighten the bolt.

6 EnergyPak – charging

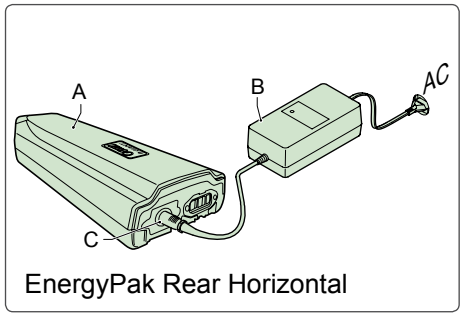
6.1 Overview Components



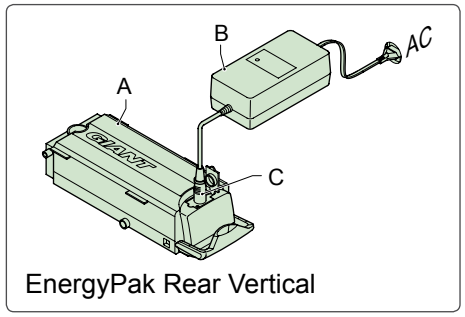
EnergyPak Front



EnergyPak Central



EnergyPak Rear Horizontal



EnergyPak Rear Vertical

A EnergyPak B Charger C Charging socket

The EnergyPak must be fully charged before the first ride or if the bike has not been ridden for over a month.

- Charge the EnergyPak in a room with a temperature between 0 °C (32 °F) and 40 °C (104 °F).
- Discharge the EnergyPak completely (by riding the bicycle) after 15 normal charges or at least every three months totally before charging the EnergyPak again. It leads to an increase of the life span.

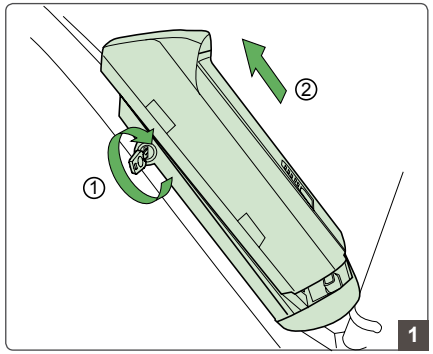
- Stop the charging procedure immediately if you notice a strange smell or smoke. Take the EnergyPak to an authorized dealer for service or replacement.
- Do not recharge the EnergyPak for over 24 hours.

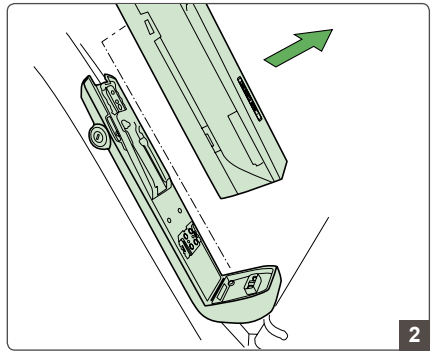
The charge of the EnergyPak can be done in two ways:*
- With the EnergyPak outside its holder (see 6.2).
- With the EnergyPak inside its holder (see 6.3).

* EnergyPak Front and EnergyPak Central should not be charged inside its holder.

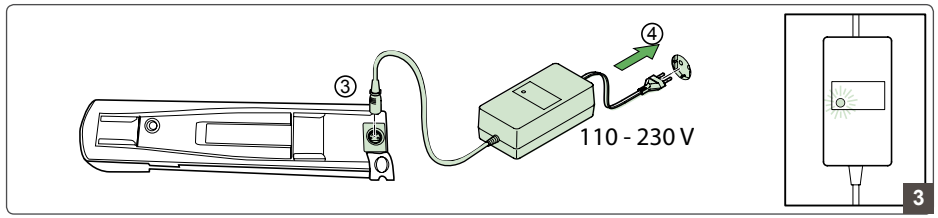
6.2 Charging - EnergyPak outside its holder

- **EnergyPak Front**

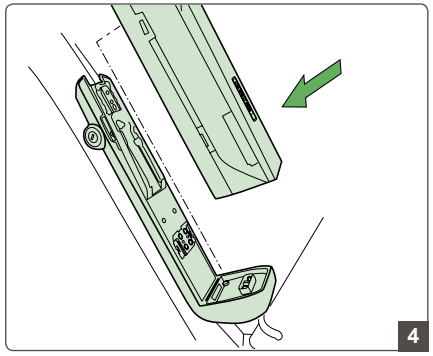


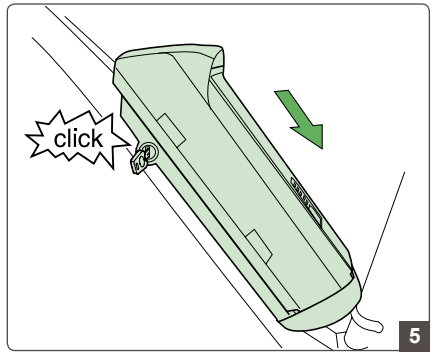


1. Switch off the EnergyPak. (refer to 7.2 ON/OFF button)
2. Insert the key and unlock the EnergyPak holder ①, then push the EnergyPak upward along the down tube direction ②.
3. Lift out the EnergyPak.



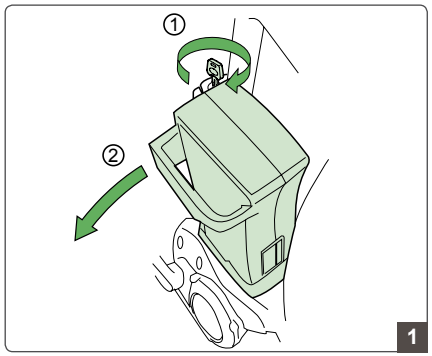
4. Connect the charger to the EnergyPak ③.
5. Connect the charger to an AC outlet ④.
6. During charging the LED will be RED, when charging is finish the LED will be GREEN.
7. Disconnect the charger first from the outlet and then from the EnergyPak.



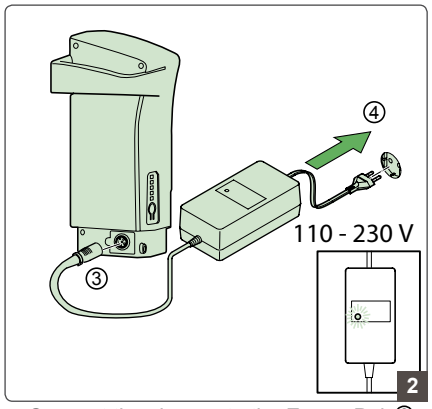


8. Place back the EnergyPak and make sure the slots fitted correctly.
9. Push back the EnergyPak.
10. Pull out the key.

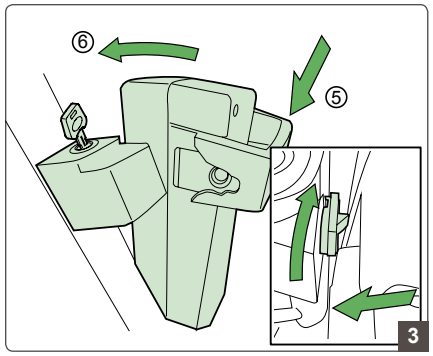
- **EnergyPak Central**



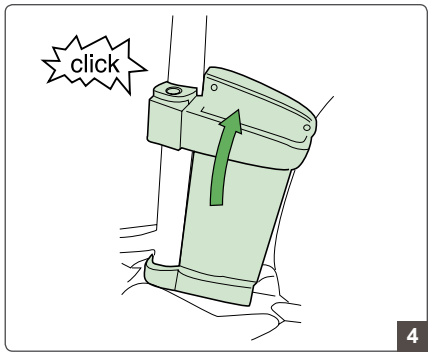
1. Switch off the System. (refer to 7.2 ON/ OFF button)
2. Insert the key to unlock the EnergyPak holder and push the EnergyPak outward.
3. Lift out the EnergyPak.



4. Connect the charger to the EnergyPak ③.
5. Connect the charger to a AC outlet ④.
6. During charging the LED will be RED, when charging is finish the LED will be GREEN.
7. Disconnect the charger first from the outlet and then from the EnergyPak.

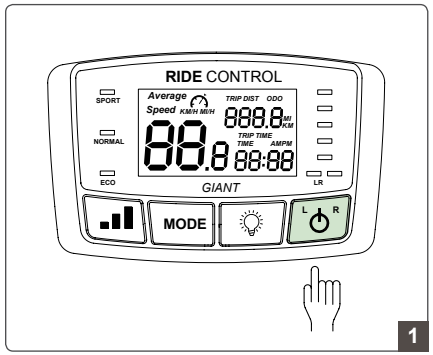


8. Place back the EnergyPak.
9. Fit the battery slot to the lock and push back the EnergyPak.

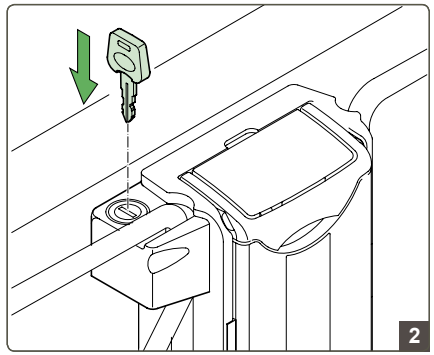


10.Pull out the key.

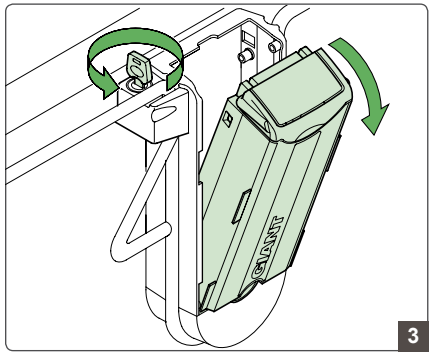
- **EnergyPak Rear Vertical**



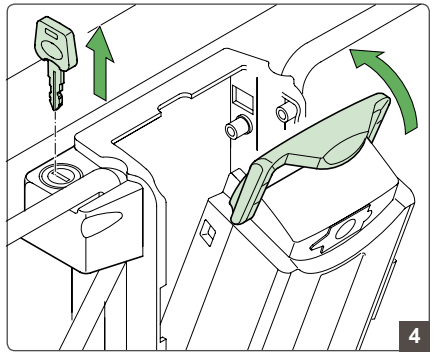
Switch off the system



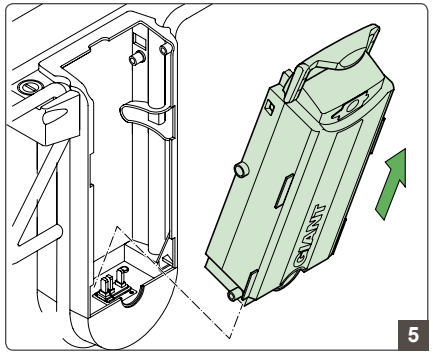
Put in the key.



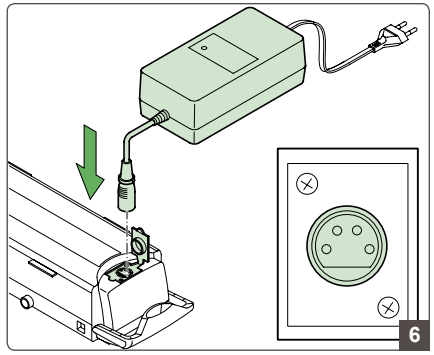
Unlock the EnergyPak holder and push the EnergyPak outward.



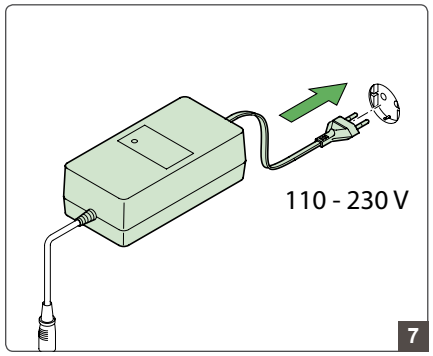
Pull out the key and fold out the grip.



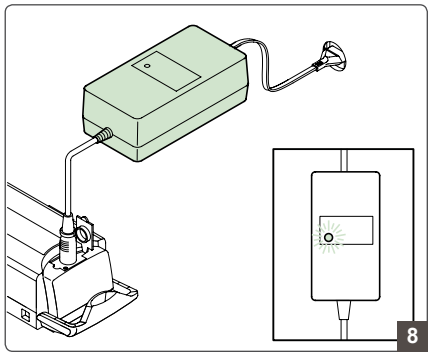
Lift out the EnergyPak.



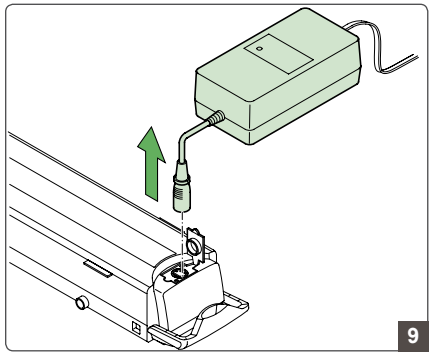
Connect the charger to the EnergyPak.



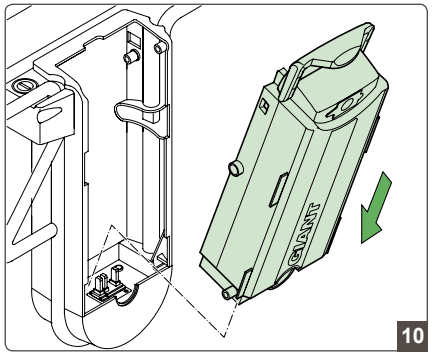
Connect the charger to an AC outlet.



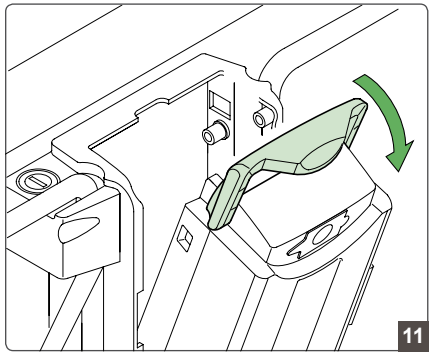
During charging the LED will be RED, when charging is finish the LED will be OFF*.



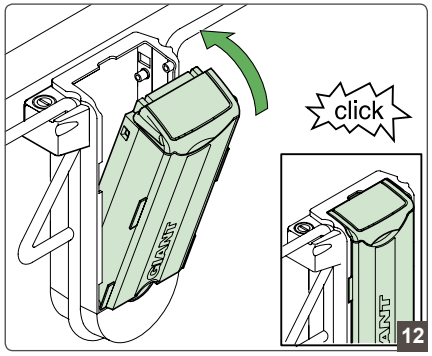
Disconnect the charger first from the outlet and then from the EnergyPak.



Place back the EnergyPak.



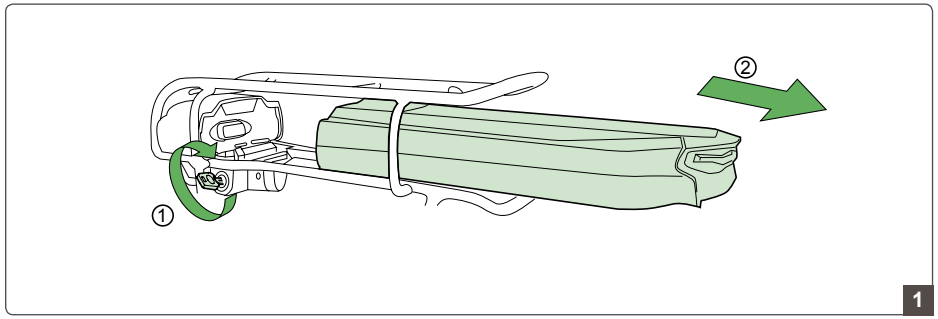
Fold in the grip.



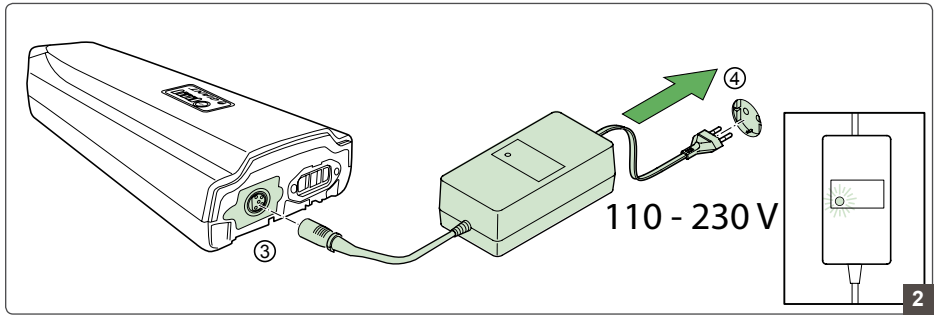
Push back the EnergyPak.

* Refer the caution on page 17.

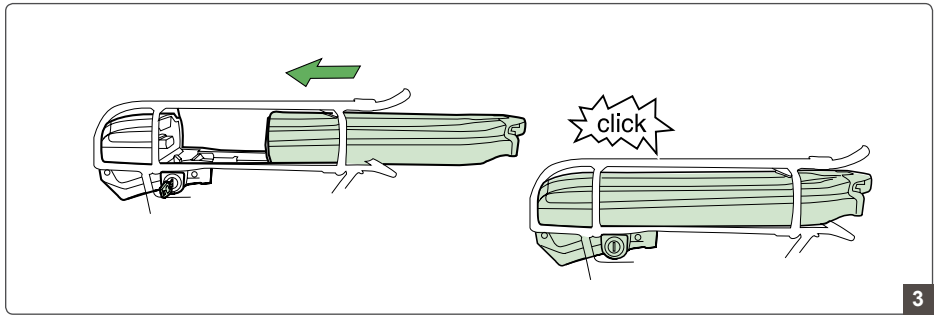
- **EnergyPak Rear Horizontal**



1. Switch off the system (refer to 7.2 ON/OFF button)
2. Insert the key into the key hole to unlock the EnergyPak holder ①, then pull the EnergyPak backward to remove the EnergyPak from the EnergyPak holder ②



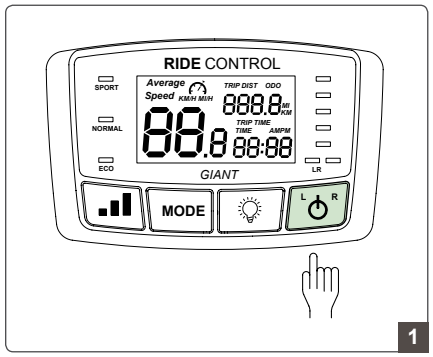
3. Connect the charger to the EnergyPak ③.
4. Connect the charger to an AC outlet ④.
5. During charging the LED will be RED, when charging is finish the LED will be GREEN.
6. Disconnect the charger first from the outlet and then from the EnergyPak.



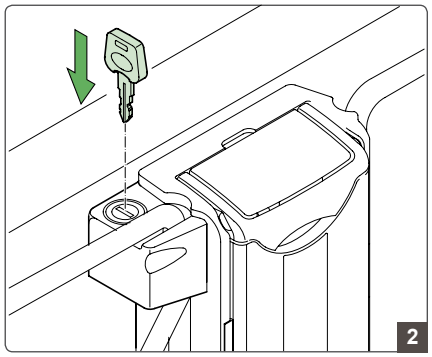
7. Place back align the EnergyPak to the slot and push it forward till hear the lock click sound.
8. Pull out the key.

6.3 Charging - EnergyPak inside its holder

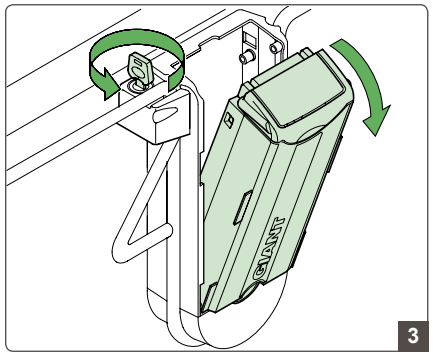
- **EnergyPak Rear Vertical**



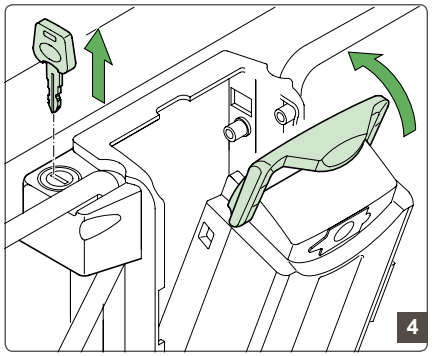
Switch off the system.



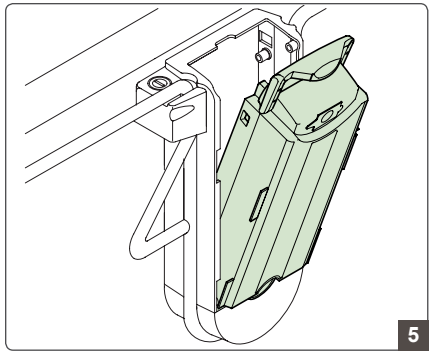
Insert the key to the lock.



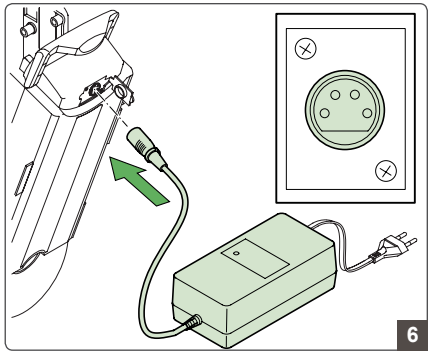
Unlock the EnergyPak holder and push the EnergyPak outward.



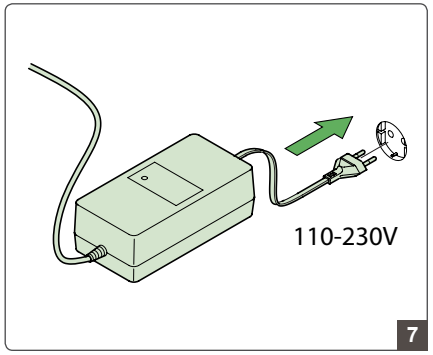
Pull out the key and fold out the grip.



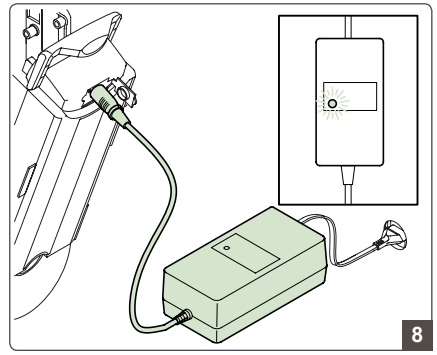
This is the right position to charge the EnergyPak.



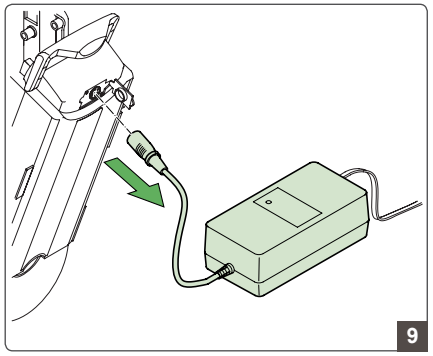
Connect the charger to the EnergyPak.



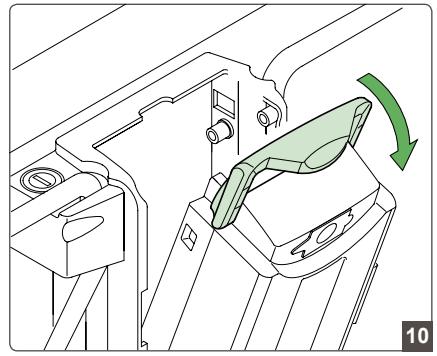
Connect the charger to a AC outlet.



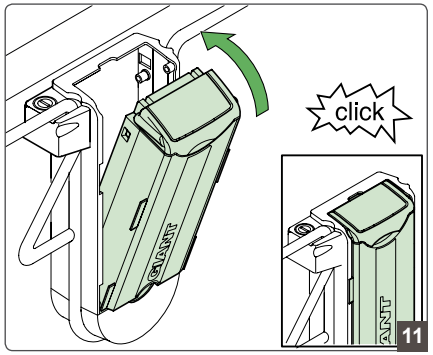
During charging the LED will be RED, when charging is finish the LED will be OFF*.



Disconnect the charger first from the outlet and then from the EnergyPak.



Fold in the grip.



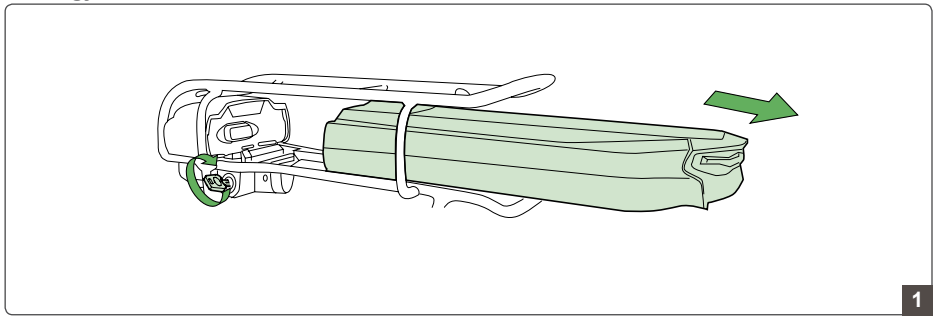
Push back the EnergyPak.

Chargers for 36V double battery bikes have two charging plugs.

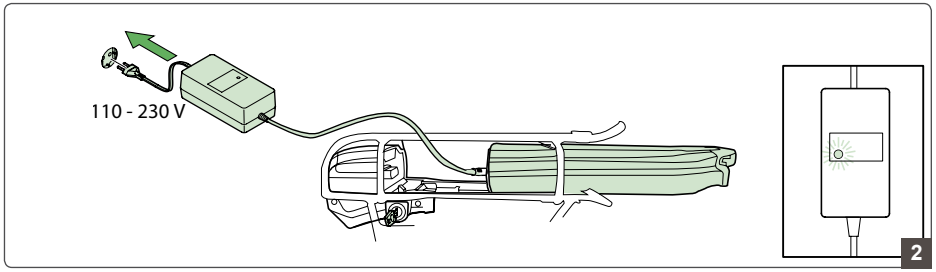
EnergyPaks will not be charged simultaneously but one at the time.

When charging is finished, the LED on the 36V charger will be green.

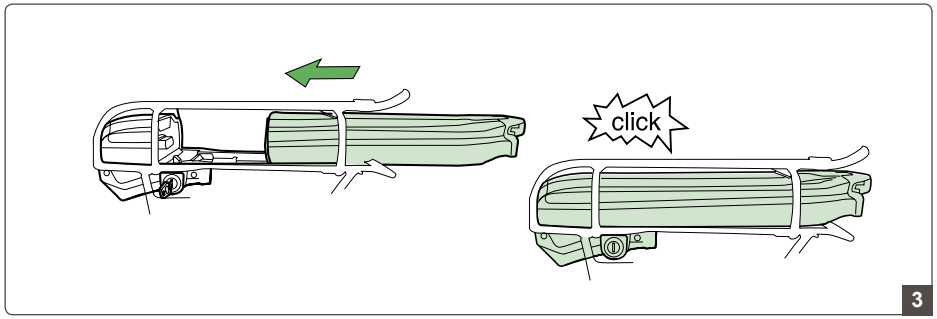
- **EnergyPak Rear Horizontal**



1. Switch off the system (refer to 7.2 ON/OFF button).
2. Put in the key.
3. Unlock the EnergyPak holder and pull the EnergyPak backward.



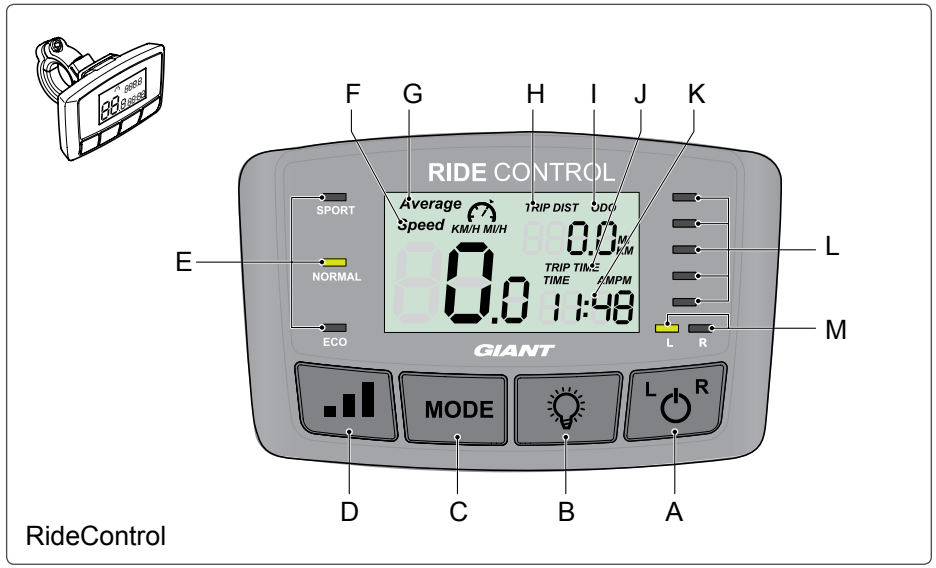
4. This is the right position to charge the EnergyPak.
5. Connect the charger to the EnergyPak.
6. Connect the charger to a AC outlet.
7. During charging the LED will be RED, when charging is finish the LED will be GREEN.
8. Disconnect the charger first from the outlet and then from the EnergyPak.



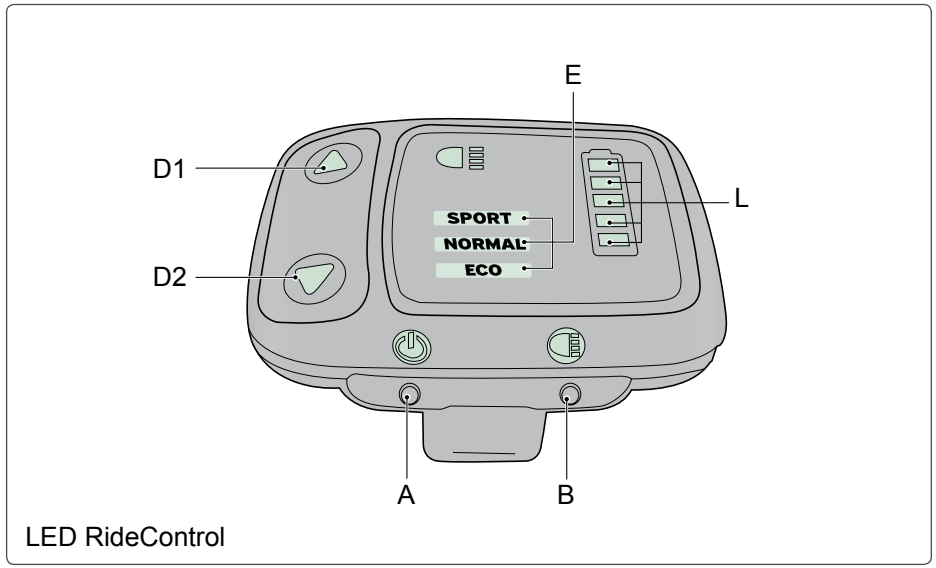
9. Hold the grip then push back the EnergyPak and pull out the key.

7 RideControl

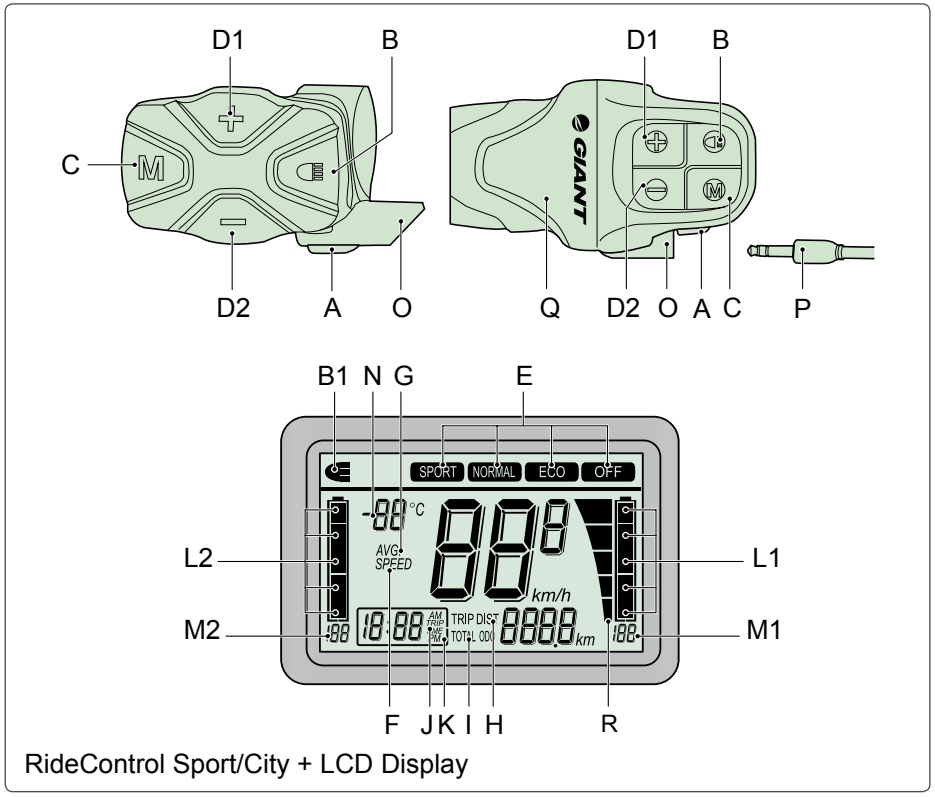
7.1 Overview panel



RideControl



LED RideControl



RideControl Sport/City + LCD Display

A On/Off/EnergyPak selector.

B Lighting
- B1 Lighting indication

C Mode

D Power assist set button
- D1 Assist up
- D2 Assist down

E Power assist indication

F Speed

G Average speed

H Trip distance

I ODO (Total distance)

J Trip time

K Time

L EnergyPak charge indicator
- L1 EnergyPak charge indicator battery 1
- L2 EnergyPak charge indicator battery 2

M EnergyPak select indicator (left or right)
- M1 EnergyPak select indicator battery 1
- M2 EnergyPak select indicator battery 2

N Temperature

O RideControl plug socket

P RideControl Communication cable plug

Q MotionAssist

R Power assist level indication bar*

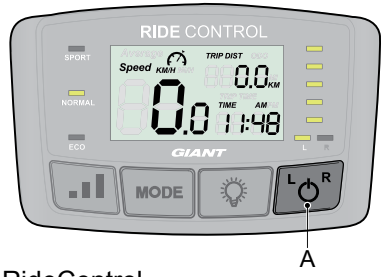
* Synchronized with the motor supporting level to the rider pedaling.

7.2 RideControl unit settings

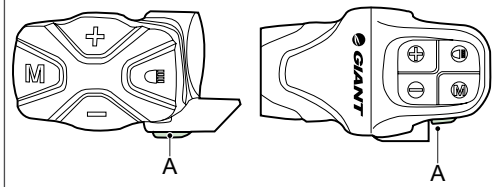
ON/OFF button
Press the ON/OFF button (A)
- to switch on the system;
- more than 2.5 seconds to switch off the system;
- less than 2.5 seconds for a EnergyPak switch over (applies for bikes with two EnergyPaks.)

When the RideControl is switched on, the display shows its initial settings without backlight.

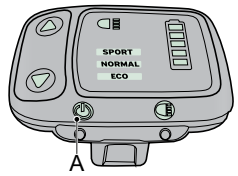
Release pedal pressure while switching between EnergyPaks.



RideControl



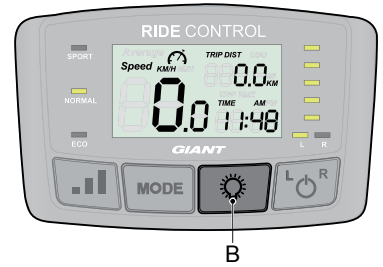
RideControl Sport/City



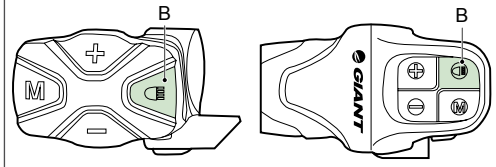
LED RideControl

Lighting
Press button (B) to switch on (off) the lights.
- RideControl: The LCD backlight will automatically switch on.

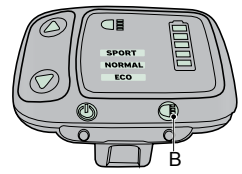
The EnergyPak supplies power to the lights. The lights will remain on when the bicycle is standing still.



RideControl



RideControl Sport/City



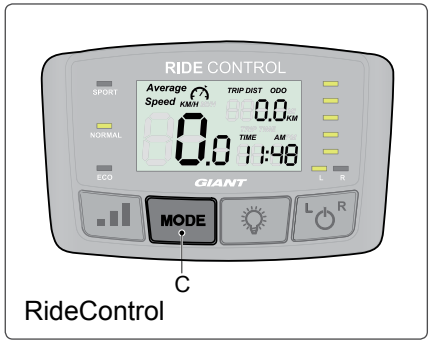
LED RideControl

Sign settings

RideControl

Press button (C) to select the following display indications:

- Speed, trip distance & trip time
- Average speed, ODO (total distance) & time

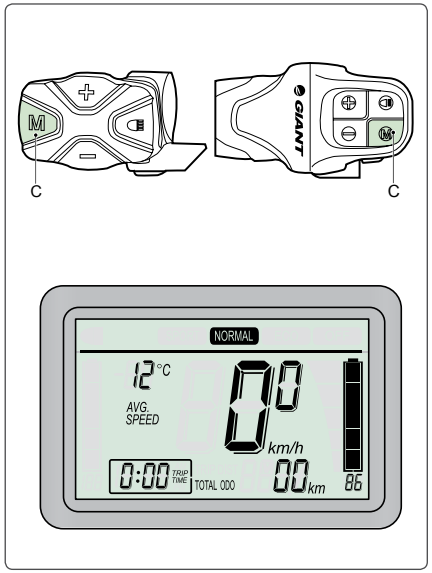


RideControl

RideControl Sport/City with Full LCD Display

Press button (C) to select the following display indications:

- Speed, trip distance & time
- Average speed, ODO (total distance) & trip time

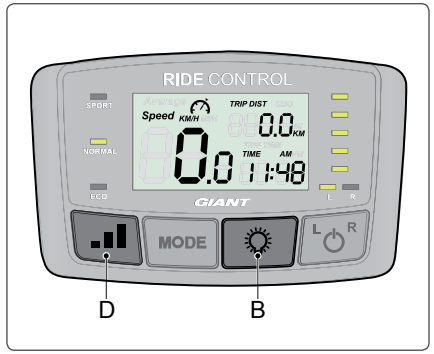


Operation settings

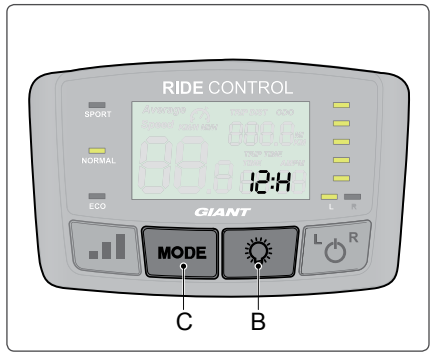
- **Time setting**

RideControl

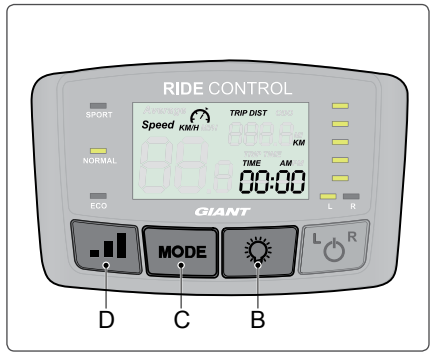
1. Press and hold the buttons (B) and (D) simultaneously until ‘00’ blinks.



2. Press button (C) less than 2.5 seconds to enter the hour-setting mode.
3. Press button (B) to set the hour-indication to 12:H or 24:H.
4. Press button (C) less than 2.5 seconds to set the hour-format. The hour-digits blink.



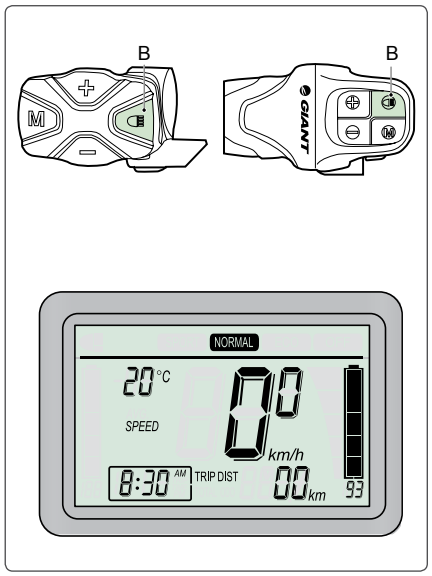
5. Press button (B) to lower the hour-digits and press button (D) to add the value.
6. Press button (C): ‘hour’ is set. The minute-digits blink.
7. Press button (B) to lower the minute-digits and press (D) to add the value.
8. Press button (C): ‘minute’ is set



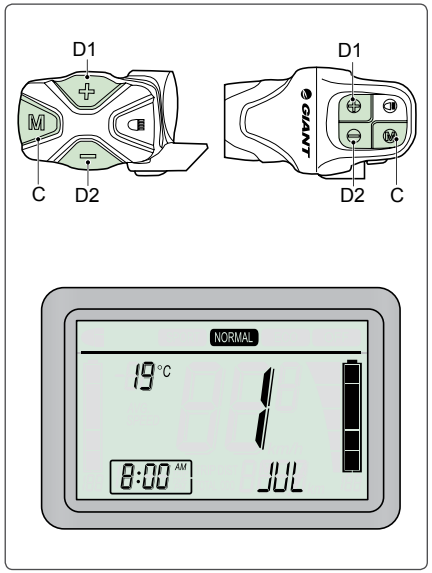
- **Time setting**

RideControl Sport/City with Full LCD Display

1. Press button (B) for 5 seconds to enter the time-setting mode.

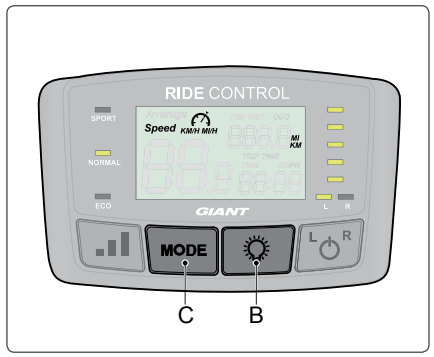


2. Press button (C) to switch the time setting mode, the digits blink in each time-setting mode, the frequency of switching time-setting mode is following:
   Minute-setting ➡ Hour-setting ➡ Date-setting ➡ Month-setting ➡ Back to Minutes-setting.
3. Press button (D1) to add the time value and/or press button (D2) to lower the value.
4. Press button (B) for 5 seconds to complete the time setting.
5. If button (B) is not pressed for 5 seconds, the new setting will be saved automatically.



- **Unit setting for distance and speed (RideControl Only)**

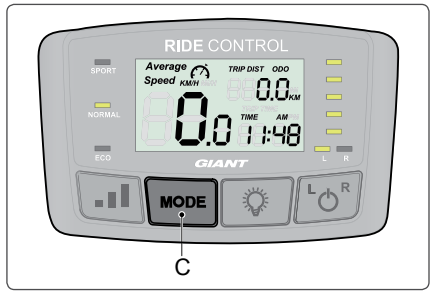
1. Press button (B) to change the distance/speed unit to km and km/h or to Mi and Mi/h.
2. Press button (C): the distance/speed unit is set. Pressing this button also gives access to the reset mode.



Reset trip information to zero

RideControl

1. Press and hold “Mode” (button C) for 2-3 seconds to reset the values of trip distance, trip time and average speed to zero.

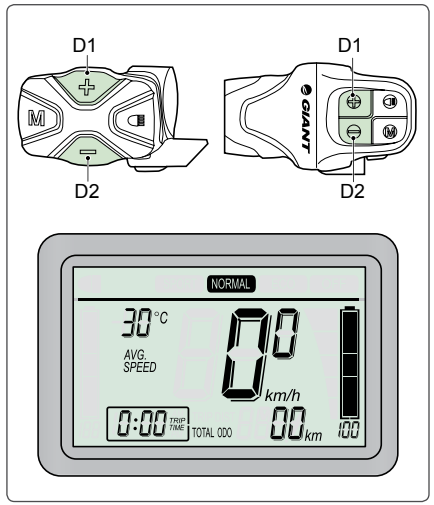


RideControl Sport/City with Full LCD Display

1. Press and hold button (D1) for 5 seconds to reset the values of trip distance, trip time and average to zero.

Reset total ODO for RideControl Sport/City with Full LCD Display

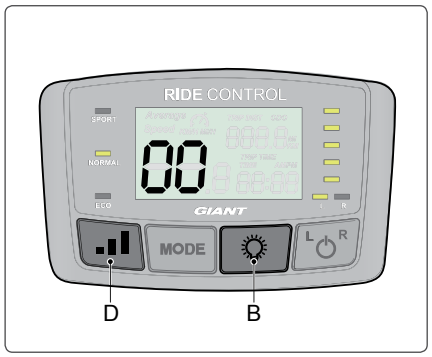
1. Press and hold button (D2) for 5 seconds to reset the values of total ODO to zero.*



The maximum of ODO distance show 9999km, operate this function when the ODO distance is reached 9999km.

Reset to factory setting

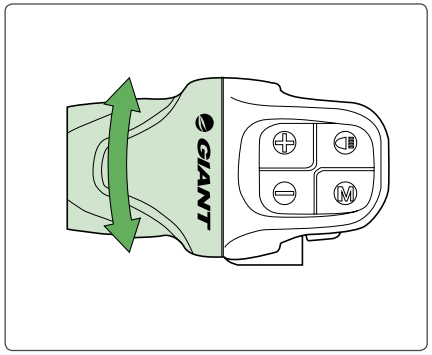
1. Press and hold the buttons (B) and (D) simultaneously until ‘00’ blinks.
2. Press button (D) less than 2.5 seconds to enter the reset mode.
3. Press button (D) twice for less than 2.5 seconds; the system will be reset to the initial factory setting.



MotionAssist operation (RideControl City)

MotionAssist works only the speed under 6km/hr.

- Turn MotionAssist backward to increase the assist speed.
- Turn MotionAssist forward to reduce the assist speed.

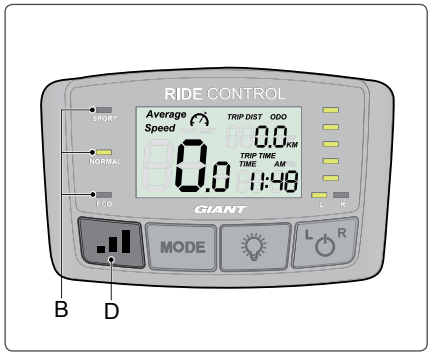


Power assist setting

RideControl

Press button (D) to choose the Power assist level (E).

- NORMAL : Normal power assist.
- SPORT : High power assist. Gives the smallest range
- ECO : Low power assist. Gives the maximum range.
- OFF: For riding without power assist but with cycle computer and light functions. (LED for power assist setting will be off).

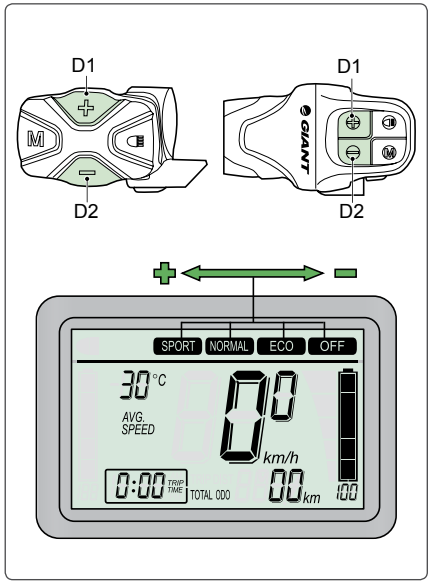


Power assist setting

RideControl Sport/City with Full LCD Display and LED RideControl

Press button (D1) to choose the higher Power assist level (E).
Press button (D2) to choose the lower Power assist level (E).

- NORMAL : Normal power assist.
- SPORT : High power assist. Gives the smallest range
- ECO : Low power assist. Gives the maximum range.
- OFF: For riding without power assist but with cycle computer and light functions. (LED RideControl of the LED for power assist setting will be off).



8 Maintenance

Giant Hybrid uses plastic shells to cover the electrical parts, so it is forbidden to use excessive water to wash the plastic. Use a soft cloth with a neutral solution to wipe the dirt off the plastic shells. After that, wipe it dry with a clean soft cloth.

⊘	Do not wash these plastic components with water. When the internal electrical parts are detected with water, the insulator may corrode which leads to power-leakage or other problems.
⊘	Do not use other soap solutions to wash these plastic components. Non-neutral solutions may cause color-change, distortion, scratch etc.
⊘	Do not use high-pressure water or air hoses for cleaning. It can force water into electrical components, which may cause malfunctioning.

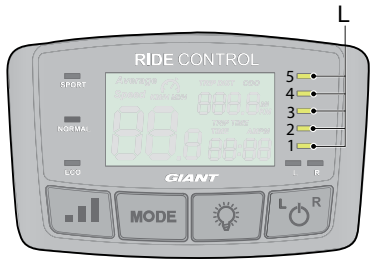
Avoid leaving the bike outdoors

When not riding, keep the bike in a location where it will be protected from snow, rain, sun etc. Snow and rain can cause the bike to corrode. The ultraviolet from the sun can fade the paint or crack any rubber or plastic on the bike.

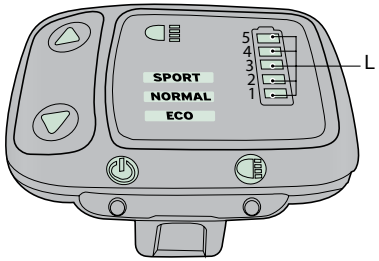
9 Troubleshooting

LED status	Cause	Solution
L1 blinks	The EnergyPak is completely empty	Charge the EnergyPak.
L2 blinks	Pedal plus sensor malfunction	Reset the power. Contact an authorized dealer if the malfunction persists.
L3 blinks	RideControl: Overheated 1^2 driver unit	Allow the bike to cool down for ten minutes.
	LED RideControl and Full LCD Display: Speed sensor malfunction	Adjust the sensor magnet position. Contact an authorized dealer.
L4 blinks	Syncdrive malfunction	Contact an authorized dealer.
L5 blinks	Battery communication error	Contact an authorized dealer.

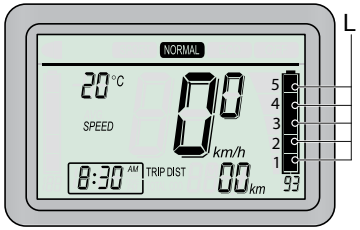
- The power assist is not available when an indicator (L1, L2, L4) blinks.
- If the LED is not on during use, check the EnergyPak charge level and/or the fitting of the EnergyPak. In event of an error the power assist is inactive.



RideControl



LED RideControl



LCD Display

10 LIMITED WARRANTY

Giant warrants for the original owner only the frame, rigid fork, or original component parts of each new Giant brand bicycle to be free from defects in material and workmanship for the following specified periods:

Warranty of lifetime for-

- The bicycle frame, except on models intended for downhill purposes.

Warranty of ten years for-

- Rigid forks.

Warranty of three years for-

- Frames on models intended for downhill purpose.

Warranty of two years for-

- Batteries and electric HPB components
- Other electronically equipments

Warranty of one year for-

- Paint finish and decals.
- All other original parts, including rear shock linkages, but excluding non Giant Brand parts, suspension forks, and rear shock absorbers. (All non Giant brand parts, suspension forks, and rear shock absorbers shall be covered exclusively by the stated warranty of their original manufacturer.)

REQUIRED ASSEMBLY WHEN PURCHASED.

This warranty applies only to bicycles and framesets purchased new from an Authorized Giant Dealer and assembled by that dealer at the time of purchase.

LIMITED REMEDY

Unless otherwise provided, the sole remedy under the above warranty, or any implied warranty, is limited to the replacement of defective parts with those of equal or greater value at the sole discretion of Giant. This warranty extends from the date of purchase, applies only to the original owner, and is not transferable. In no event shall Giant be responsible for any direct, incidental or consequential damages, including, without limitation, damages for personal injury, property damage, or economic losses, whether based on contract, warranty, negligence, product liability, or any other theory.

EXCLUSIONS

The above warranty, or any implied warranty, does not cover:

- Normal wear and tear on parts such as tires, chains, brakes, cables and gearwheels in situations where there are no assembly or material defects.
- Bicycles serviced by other than an Authorized Giant dealer.
- Modifications from the original condition.
- Use of the bicycle for abnormal, competition and/or commercial activities or for purposes other than those for which the bicycle was designed.
- Damage caused by failing to follow the owner's manual.
- Paint finish and decal damage resulting from taking part in competitions, jumping, downhill and/or training for such activities or events or as a result of exposing the bike to, or riding the bike in, severe conditions or climates.
- Labor charges for part replacement or changeover.

Except as is provided by this warranty and subject to all additional warranties Giant and its employees and agents shall not be liable for any loss or damage whatsoever (including incidental and consequential loss or damage caused by negligence or default) arising from or concerning any Giant bicycle.

Giant makes no other warranties, express or implied. All implied warranties, including the warranties of merchantability and fitness for a particular purpose are limited in duration to that of the express warranties stated above.

Any claim against this warranty must be made through an Authorized Giant Dealer or distributor. The purchase receipt or other proof of the date of purchase is required before a warranty claim may be processed.

Claims made outside the country of purchase may be subject to fees and additional restrictions.

Warranty duration and detail may differ by frame type and/or by country. This warranty gives you specific legal rights, and you may also have other rights which may vary from place to place. **This warranty does not affect your statutory rights.**

For 2011 and older model bicycles, please consult your owner's manual or contact Giant or your Authorized Giant dealer for the applicable warranty information.

GIANT

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